What is claimed is:

1. A printing inspection apparatus for inspecting a printing state of cream solder on a substrate after screen printing, said apparatus comprising:

image pick-up means for picking up an image of said substrate;

printing judging means for making a go/no-go judgment of the printing state based on an image pick-up result of said substrate from said image pick-up means and inspection data needed to perform a printing inspection; and

display means for displaying a judgment result, wherein:

the inspection data is generated by classifying element shape and position data, indicating shapes and positions of element solder print portions formed through printing on electrodes provided on a circuit forming surface of said substrate to be used to bond electronic components, into data groups grouped according to a grouping condition; and

said display means displays the judgment result in connection with the data groups.

2. The printing inspection apparatus according to Claim 1, wherein:

the grouping condition is determined based on a geometrical range on a printing surface of said substrate; and

said printing judging means makes a judgment of the printing state using a data group grouped as an inspection performance range.

3. The printing inspection apparatus according to Claim 1, wherein:

the grouping condition is determined based on an attribute of said electronic components; and

said printing judging means makes a judgment of the printing state using a data group grouped as an electronic component having an attribute specified as a subject to be inspected.

4. The printing inspection apparatus according to Claim 1, wherein:

the grouping condition is determined so as to make a one-to-one correspondence between said electronic components and the data groups; and

said display means displays the judgment result for each data group.

5. A printing inspection method for inspecting a printing state of cream solder on a substrate after screen printing, said method comprising the step of:

making a go/no-go judgment of the printing state based

on inspection data generated by classifying unit shape and position data, indicating shapes and positions of element solder print portions formed through printing on electrodes provided on a circuit forming surface of said substrate to be used to bond electronic components, into data groups grouped according to a grouping condition, and an image pick-up result of said substrate from image pick-up means; and

displaying a judgment result in connection with the data groups.

6. The printing inspection method according to Claim 5, wherein:

the grouping condition is determined based on a geometrical range on a printing surface of said substrate; and

a judgment of the printing state is made by using a data group grouped as an inspection performance range.

7. The printing inspection method according to Claim 5, wherein:

the grouping condition is determined based on an attribute of said electronic components; and

a judgment of the printing state is made by using a data group grouped as an electronic component having an attribute specified as a subject to be inspected.

8. The printing inspection method according to Claim 5, wherein:

the grouping condition is determined so as to make a one-to-one correspondence between said electronic components and the data groups; and

the judgment result is displayed for each data group.

9. A printing inspection data generating apparatus for generating inspection data used in a printing inspection apparatus for inspecting a printing state of cream solder on a substrate after screen printing and containing shape and position data indicating shapes and positions of solder print portions formed by printing the cream solder on a printing surface, said printing inspection data generating apparatus comprising:

data providing means for providing element shape and position data indicating shapes and positions of element solder print portions formed on respective electrodes provided on a circuit forming surface of said substrate to be used to bond electronic components; and

grouping means for classifying the element shape and position data into data groups grouped according to a grouping condition to identify individual data groups.

10. The printing inspection data generating apparatus

according to Claim 9, wherein:

the grouping condition is determined based on a geometrical range on the printing surface of said substrate.

11. The printing inspection data generating apparatus according to Claim 9, wherein:

the grouping condition is determined based on an attribute of said electronic components.

12. The printing inspection data generating apparatus according to Claim 9, wherein:

the grouping condition is determined so as to make one group for each of said electronic components.

13. The printing inspection data generating apparatus according to Claim 9, further comprising specific inspection data giving means for giving specific inspection data to the individual data groups.

14. The printing inspection data generating apparatus according to any of Claims 9 through 13, wherein:

said data providing means provides element shape and position data obtained based on mask opening data detected from a mask plate to be used for the screen printing.

15. A printing inspection data generating method for generating inspection data used in a printing inspection apparatus for inspecting a printing state of cream solder on a substrate after screen printing and containing shape and position data indicating shapes and positions of solder print portions formed by printing the cream solder on a printing surface, wherein:

element shape and position data, indicating shapes and positions of element solder print portions formed on respective electrodes provided on a circuit forming surface of said substrate to be used to bond electronic components, is classified into data groups grouped according to a grouping condition to identify individual data groups.

16. The printing inspection data generating method according to Claim 15, wherein:

the grouping condition is determined based on a geometrical range on the printing surface of said substrate.

17. The printing inspection data generating method according to Claim 15, wherein:

the grouping condition is determined based on an attribute of said electronic components.

18. The printing inspection data generating method according

to Claim 15, wherein:

the grouping condition is determined so as to make one group for each of said electronic components.

19. The printing inspection data generating method according to Claim 15, wherein:

specific inspection data is given to the individual data groups.

20. The printing inspection data generating method according to any of Claims 15 through 19, wherein the element shape and position data is provided based on mask opening data detected from a mask plate to be used for the screen printing.